

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number  
WO 2005/016132 A2

(51) International Patent Classification<sup>7</sup>:

A61B

General Hospital, Outram Road, Singapore 169608 (SG). OOI, Eng, Eong [SG/SG]; Environment Health Institute, National Environment Agency, 41 Science Park Road, #03-24/28, The Gemini, Singapore 117610 (SG). CHNG, Hlok, Hee [SG/SG]; Department of Rheumatology, Allergy & Immunology, Tan Tock Seng Hospital, 11, Jalan Tan Tock Seng, Singapore 308433 (SG).

(21) International Application Number:

PCT/US2004/003307

(22) International Filing Date: 4 February 2004 (04.02.2004)

(25) Filing Language:

English

(74) Agents: ERNST, Barbara, G. et al.; Rothwell, Figg, Ernst & Manbeck, P.C., 1425 K Street, N.W., Suite 800, Washington, DC 20005 (US).

(26) Publication Language:

English

(30) Priority Data:

60/486,918 15 July 2003 (15.07.2003) US

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

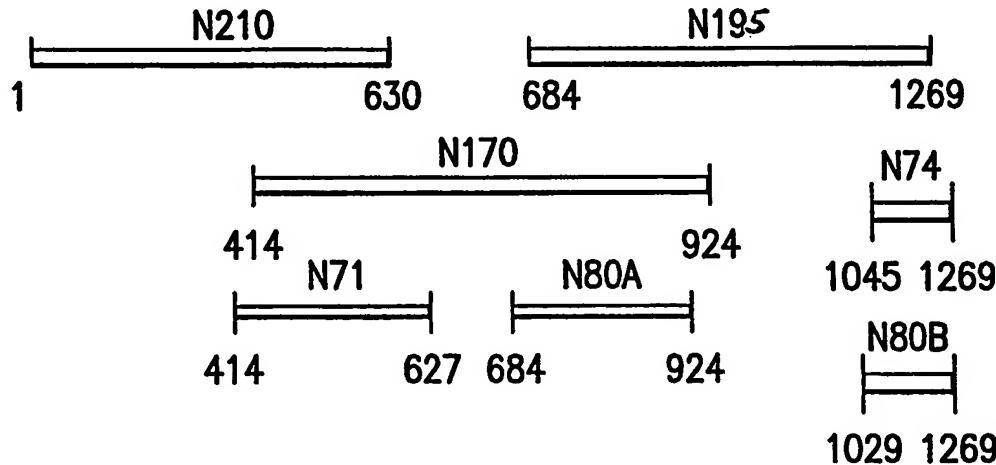
(71) Applicant (for all designated States except US): TEMASEK LIFE SCIENCES LABORATORY [SG/SG]; 1 Research Link, National University of Singapore, Singapore 117604 (SG).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

*(Continued on next page)*

(54) Title: DIAGNOSTICS FOR SARS VIRUS

NUCLEOCAPSID PROTEIN 1269bp



WO 2005/016132 A2

(57) Abstract: This invention relates to Severe Acute Respiratory Syndrome associated coronavirus (SARS virus) isolated and recombinant proteins, in particular the nucleocapsid (N) protein and spike (S) protein, as well as fragments thereof and their use in the diagnosis, treatment and prevention of Severe Acute Respiratory Syndrome (SARS). The proteins and fragments carry epitopes that are specific for the SARS virus. Thus, detection methods based on these proteins or fragments as well as the monoclonal antibodies against these proteins or fragments are specific for the SARS virus.



European (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BJ, CI, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NI, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

- *without international search report and to be republished upon receipt of that report*